

CLAIMS

1. A mobile electronic apparatus comprising:
 - a main body having a battery chamber recessed generally in a rectangular shape in a lower portion of a back side of a casing, as opposed to
5 a surface side having an operation unit and a display unit;
 - a battery pack adapted to be removably contained in the battery chamber formed at a back face of the casing of the main body; and
 - a collision avoiding unit including:
 - 10 generally sector-shaped ascent/descent portions and suitably shaped push-up portions which are disposed higher than and corresponding to a connecting terminal disposed in the battery chamber, on inner wall faces formed on the two sides along the loading direction of the battery pack so as to form the battery chamber and near a corner portion
15 intersecting an abutting wall face perpendicular to the inner wall faces for forming the battery chamber; and
 - riding portions which are formed on a back face of the battery pack confronting the ascent/descent portions and the push-up portions on the two widthwise sides of the battery pack and ascending/descending
20 while sliding on the sector-shaped faces of the push-up portions so as to ride over the connecting terminal disposed in the battery chamber.
2. The mobile electronic apparatus as set forth in claim 1, wherein an area for a cleaning operation to clean outer face of the connecting terminal or a
25 back electrode disposed in the battery pack is set between the ascent/descent

portions of the casing on a main body side of the mobile electronic apparatus and the riding portions of the battery pack at the time when the battery pack is loaded into the mobile electronic apparatus.

- 5 3. The mobile electronic apparatus as set forth in claim 1 or 2, wherein the mobile electronic apparatus is a mobile telephone having a rod-shaped the main body side casing;

 wherein the collision avoiding unit is constructed that the ascent/descent portions disposed on the main body side casing of the mobile
10 telephone are formed into generally concavely arcuate faces oriented toward the loading direction of the battery pack;

 wherein the collision avoiding unit is constructed that the riding portions of the battery pack are formed into generally convexly arcuate faces oriented in the direction to unload the battery pack; and

15 wherein the collision avoiding unit is constructed that a plurality of the connecting terminals are arranged along a shorter direction of the main body side casing, and a plural of the back electrodes are arranged on a back face of the battery pack so as to correspond to the connecting terminals for connecting to the connecting terminals of the battery chamber.

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4. The mobile electronic apparatus as set forth in claim 1 or 2, wherein the mobile electronic apparatus is a folding type mobile telephone having main body side casing portions connected to each other through a hinge;

 wherein the collision avoiding unit is constructed that the
25 ascent/descent portions disposed on the main body side lower casing of the

mobile telephone are formed into generally convexly arcuate faces oriented toward the loading direction of the battery pack;

wherein the collision avoiding unit is constructed that the riding portions of the battery pack are formed into generally concavely arcuate faces oriented in the direction to unload the battery pack; and

wherein the collision avoiding unit is constructed that a plurality of the connecting terminals are arranged along the longer direction of the main body side casing, and a plurality of the back electrodes are arranged on a back face of the battery pack so as to correspond to the connecting terminals for connecting to the connecting terminals of the battery chamber.

5. The mobile electronic apparatus as set forth in any one of claims 1 to 4, wherein a plurality of the connecting terminals in the battery chamber are made of pin terminals protruded vertically upward from a floor face of the battery chamber, and are biased with an elastic force to freely move in a vertically upward direction.